CONTACT DUPLICATING AND RESEAU PRINTER

AND

HIGH RESOLUTION STEP AND REPEAT PRINTER

MONTHLY LETTER REPORT

#19

February 10, 1966

Period: Jan. 1, 1965 to Feb. 1, 1966

STAT

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1.0 CONTACT DUPLICATING AND RESEAU PRINTER

1.1 Purpose

The over-all objective of the current contract is the design, fabrication, test, and delivery in fifteen months of a Photographic, Step and Repeat, Contact Duplicating and Reseau Printer. Prime design goals are high-speed automatic operation, variable format capability, and high resolution with minimum film distortion or damage. The delivered equipment will be suitable for operational use. The printer will accomodate films of 70 mm to 9-1/2" width with frame lengths up to 30 inches and will provide operation in the reseau mode and selective mode as options.

1.2 Activity of this Report Period

The first reseau grid and glass platens were sent to [ ] STAT for anti newton-fringe coatings. Final assembly in the mounting frames is presently in process at the [ ] STAT and should be completed by the end of January. After final inspection at [ ] the units will be delivered to [ ] STAT for final fitting and test in the printer.

Component failures, resulting in intermittant operation have delayed delivery of the frame edge detection circuits, and final test is presently being completed at [ ] STAT transport breadboard. Delivery to Washington for test is planned for the end of January.

All mechanical work has been completed on both printer and pre-view and punch stations except the drawer latches, light seals and film transport mechanism. The latter design and breadboard are presently under test at [redacted] STAT All air plumbing has been installed and tested, and the sub-base for pre-installation has been completed and will be delivered prior to the printer delivery.

Circuit modification of the exposure control electronics has been developed for equalization of dodging lamp turn-off when a constant density is in the film gate. Component part procurement is under way and the circuit modifications will be installed as soon as all parts have been received.

1.3 Plans for Next Period

Final installation of the film transport and frame edge detector circuits will be made after satisfactory completion of tests on the breadboard unit. Final test and delivery are planned.

1.4 Problems

Frame edge detector tests will be performed in Washington at the customer's facility since specific test films are unavailable to [redacted] STAT

1.5 Documentation

There was no new documentation this month.

1.6 Questions Outstanding

Lack of funds and change of scope questions are unresolved.

2.0 HIGH RESOLUTION STEP AND REPEAT PRINTER

2.1 Purpose

The purpose of this effort is to design, fabricate, test and deliver in twenty months a high precision, step and repeat, photographic contact printer. This printer will be capable of producing photographic contact prints of the highest possible quality, resolution, and acutance from roll films of width varying from 70 mm to 9-1/2" and in preselected frame lengths from 5 inches up to a maximum of 30 inches.

2.2 Activity of this Report Period

All activity has been stopped as of October 13, 1965, when a stop work order was received at [ ] from the Contracting Officer. STAT

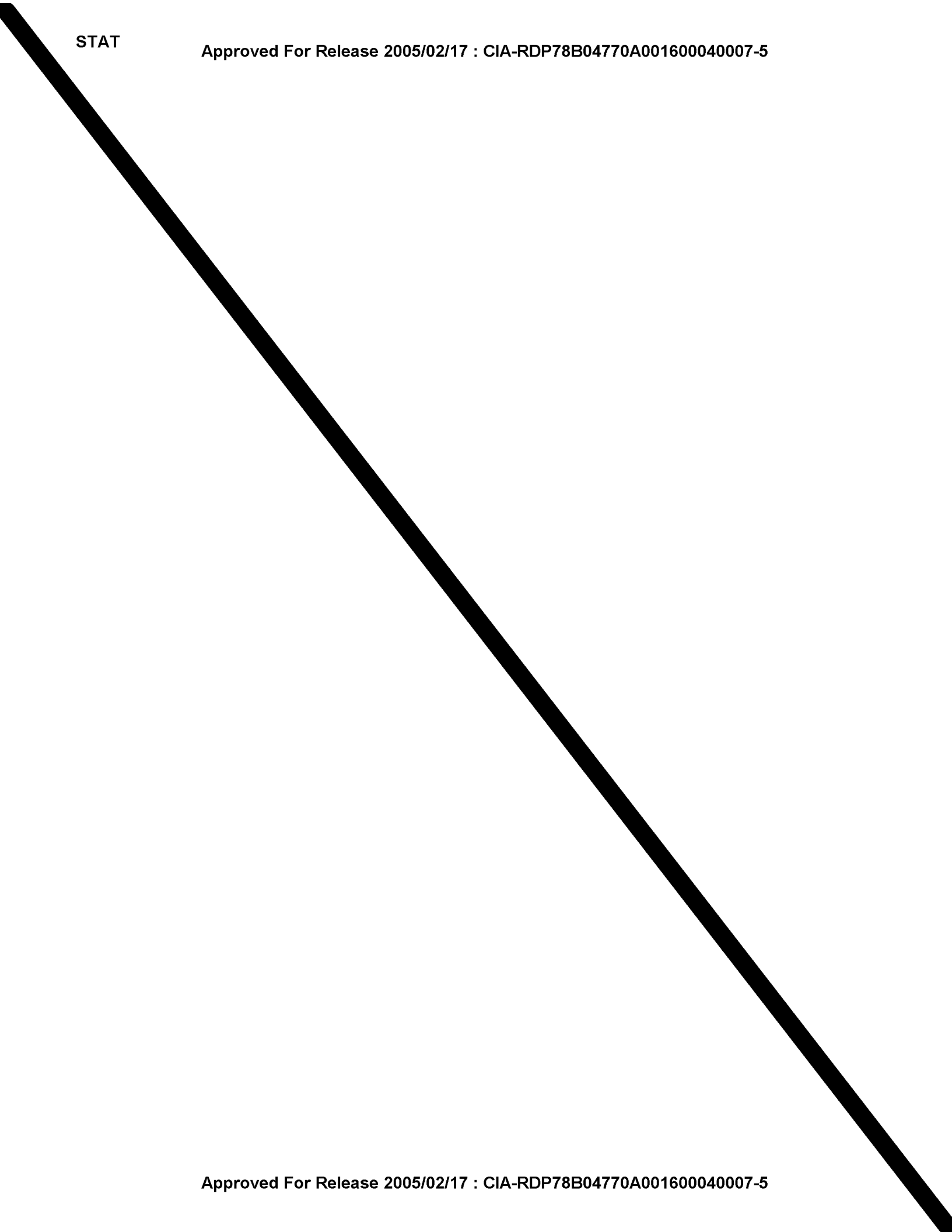
STAT A meeting was held at [ ] on January 10, 1966 with the technical monitor and others to discuss and demonstrate the printer breadboard. A specification review was presented, and it was decided to perform a series of resolution tests on both the customer's present operational printer and the printer 2 breadboard. The tests will be performed in early February. upon completion of machine tune-up, and determination of optimum exposure and processing.

2.3 Plans for Next Report Period

Review and discussion of the resolution tests is contemplated.

2.4 Questions Outstanding

Change in scope question and lack of funds has not been resolved.



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